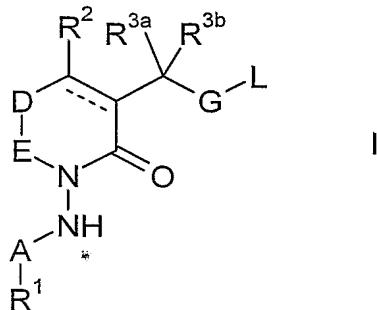


**Claims**

1. A compound of formula I



5 wherein

the dashed line is absent or represents a bond;

A represents C(O), S(O)<sub>2</sub>, C(O)O (in which latter group the O moiety is attached to R<sup>1</sup>), C(O)NH, S(O)<sub>2</sub>NH (in which latter two groups the NH moiety is attached to R<sup>1</sup>) or C<sub>1-6</sub> alkylene;

R<sup>1</sup> represents

- (a) C<sub>1-10</sub> alkyl, C<sub>2-10</sub> alkenyl, C<sub>2-10</sub> alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, CN, C<sub>3-10</sub> cycloalkyl (optionally substituted by one or more substituents selected from halo, OH, =O, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy and aryl), OR<sup>4a</sup>, S(O)<sub>n</sub>R<sup>4b</sup>, S(O)<sub>2</sub>N(R<sup>4c</sup>)(R<sup>4d</sup>), N(R<sup>4e</sup>)S(O)<sub>2</sub>R<sup>4f</sup>, N(R<sup>4g</sup>)(R<sup>4h</sup>), B<sup>1</sup>-C(O)-B<sup>2</sup>-R<sup>4i</sup>, aryl and Het<sup>1</sup>),
- (b) C<sub>3-10</sub> cycloalkyl or C<sub>4-10</sub> cycloalkenyl, which latter two groups are optionally substituted by one or more substituents selected from halo, =O, CN, C<sub>1-10</sub> alkyl, C<sub>3-10</sub> cycloalkyl (optionally substituted by one or more substituents selected from halo, OH, =O, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy and aryl), OR<sup>4a</sup>, S(O)<sub>n</sub>R<sup>4b</sup>, S(O)<sub>2</sub>N(R<sup>4c</sup>)(R<sup>4d</sup>), N(R<sup>4e</sup>)S(O)<sub>2</sub>R<sup>4f</sup>, N(R<sup>4g</sup>)(R<sup>4h</sup>), B<sup>3</sup>-C(O)-B<sup>4</sup>-R<sup>4i</sup>, aryl and Het<sup>2</sup>,
- (c) aryl, or

(d)  $\text{Het}^3$ ;

$\text{R}^{4a}$  to  $\text{R}^{4i}$  independently represent, at each occurrence,

- (a) H,
- 5 (b)  $\text{C}_{1-10}$  alkyl,  $\text{C}_{2-10}$  alkenyl,  $\text{C}_{2-10}$  alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH,  $\text{C}_{1-6}$  alkoxy, aryl and  $\text{Het}^4$ ),
- (c)  $\text{C}_{3-10}$  cycloalkyl,  $\text{C}_{4-10}$  cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O,  $\text{C}_{1-6}$  alkyl,  $\text{C}_{1-6}$  alkoxy, aryl and  $\text{Het}^5$ ),
- 10 (d) aryl or
- (e)  $\text{Het}^6$ ,

provided that  $\text{R}^{4b}$  does not represent H when n is 1 or 2;

15 the group -D-E-

- (a) when the dashed line represents a bond, represents  $-\text{C}(\text{R}^{5a})=\text{C}(\text{R}^{5b})-$ , or
- 20 (b) when the dashed line is absent, represents  $-\text{C}(\text{R}^{6a})(\text{R}^{6b})-\text{C}(\text{R}^{7a})(\text{R}^{7b})-$ ;  $\text{R}^{5a}$  and  $\text{R}^{5b}$  independently represent H, halo, OH,  $\text{C}_{1-4}$  alkyl,  $(\text{CH}_2)_{0-4}\text{O}(\text{C}_{1-3}$  alkyl) (which latter two groups are optionally substituted by one OH group or one or more F atoms);

$\text{R}^{6a}$ ,  $\text{R}^{6b}$ ,  $\text{R}^{7a}$  and  $\text{R}^{7b}$  independently represent H, F or methyl; or  $\text{R}^{5a}$  and  $\text{R}^{5b}$  together represent  $\text{C}_{2-4}$  n-alkylene; or one of  $\text{R}^{6a}$  and  $\text{R}^{6b}$ , together with one of  $\text{R}^{7a}$  and  $\text{R}^{7b}$ , represents  $\text{C}_{1-4}$  n-alkylene;

25  $\text{R}^2$  represents

- (a) H,
- (b) halo;

(c)  $C_{1-6}$  alkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  alkynyl,  $C_{1-6}$  alkoxy (which latter four groups are optionally substituted by one or more substituents selected from halo, OH, CN,  $C_{1-4}$  alkoxy,  $C(O)OH$ ,  $C(O)O-C_{1-4}$  alkyl and  $OC(O)-C_{1-4}$  alkyl) or

5 (d) together with  $R^{3a}$ ,  $R^2$  represents  $C_{2-3}$   $n$ -alkylene,  $T^1-(C_{1-2}$   $n$ -alkylene) or  $(C_{1-2}$   $n$ -alkylene)- $T^1$ , which latter three groups are optionally substituted by halo, or

(e) together with  $R^{3a}$  and  $R^{3b}$ ,  $R^2$  represents  $T^2-[C(H)=]$ , wherein  $T^2$  is bonded to the C-atom to which the group  $R^2$  is attached;

10  $R^{3a}$  and  $R^{3b}$  independently represent H, F or methyl (which latter group is optionally substituted by one or more F atoms), or

(a) together with  $R^2$ ,  $R^{3a}$  represents  $C_{2-3}$   $n$ -alkylene,  $T^1-(C_{1-2}$   $n$ -alkylene) or  $(C_{1-2}$   $n$ -alkylene)- $T^1$ , which latter three groups are optionally substituted by halo, or

15 (b) together with  $R^2$ ,  $R^{3a}$  and  $R^{3b}$  represent  $T^2-[C(H)=]$ , wherein  $T^2$  is bonded to the C-atom to which the group  $R^2$  is attached;

$T^1$  and  $T^2$  independently represent O, S, N(H) or  $N(C_{1-4}$  alkyl);

20 G represents

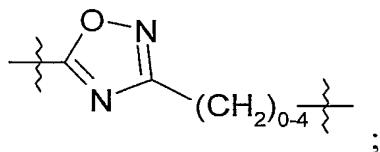
(a)  $-C(O)N(R^{8a})-[CH(C(O)R^9)]_{0-1}-C_{0-3}$  alkylene- $(Q^1)_a-$ ,

(b)  $-C(O)N(R^{8b})-C_{2-3}$  alkenylene- $(Q^1)_a-$ ,

(c)



(d)

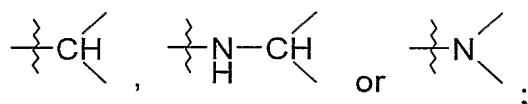


5  $R^9$  represents H or a 5- to 10-membered aromatic heterocyclic group comprising one or two rings and containing, as heteroatom(s), one sulfur or oxygen atom and/or one or more nitrogen atoms, which heterocyclic group is optionally substituted by one or more substituents selected from halo and  $C_{1-6}$  alkyl;

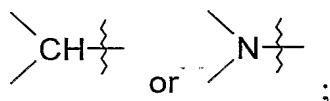
10  $Q^1$  represents O,  $NR^{10a}$ ,  $[N(H)]_{0-1}C(O)-C_{0-2}$  alkylene,  $C(O)NHNHC(O)$ , or  $-N=C(R^{10b})-$ ;

15 a represents 0 or 1;

$Q^{2a}$  represents



$Q^{2b}$  represents

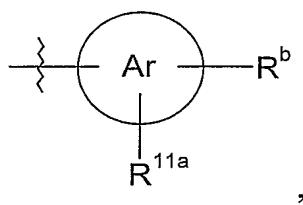


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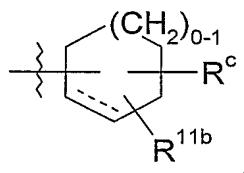
L represents

- (a)  $C_{0-6}$  alkylene- $R^a$ ,
- (b)  $C_{0-2}$  alkylene- $CH=CH-C_{0-2}$  alkylene- $R^a$ ,
- (c)  $C_{0-2}$  alkylene- $C\equiv C-C_{0-2}$  alkylene- $R^a$ ,

20 (d)

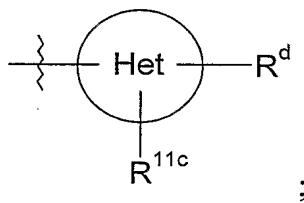


(e)



wherein the dashed line represents an optional double bond, or

(f)



5

Ar represents phenyl or naphthyl;

Het represents a 5- to 10-membered heterocyclic group comprising one or two rings and containing, as heteroatom(s), one sulfur or oxygen atom and/or one or more nitrogen atoms;

10

R<sup>11a</sup> represents H or one or more substituents selected from halo, OH, CN, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, C<sub>1-4</sub> alkoxy, C(O)OR<sup>12a</sup> and C(O)N(R<sup>12b</sup>)R<sup>12c</sup>) and S(O)<sub>0-2</sub>R<sup>12d</sup>;

15

R<sup>11b</sup> and R<sup>11c</sup> independently represent H or one or more substituents selected from halo, OH, CN, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, C<sub>1-4</sub> alkoxy, C(O)OR<sup>12a</sup> and C(O)N(R<sup>12b</sup>)R<sup>12c</sup>), S(O)<sub>0-2</sub>R<sup>12d</sup>, =O, =NH, =NOH and =N-CN;

20

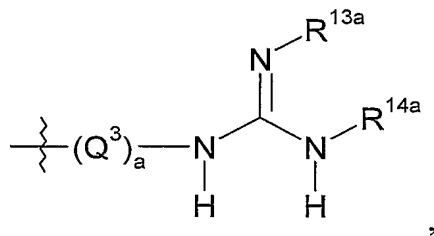
R<sup>12a</sup> to R<sup>12c</sup> independently represent H, C<sub>1-6</sub> alkyl or C<sub>3-7</sub> cycloalkyl (which latter two groups are optionally substituted by one OH or N(R<sup>12e</sup>)R<sup>12f</sup> group or by one or more halo atoms);

R<sup>12d</sup> represents, independently at each occurrence, C<sub>1-6</sub> alkyl optionally substituted by one OH or N(R<sup>12e</sup>)R<sup>12f</sup> group or by one or more halo atoms;

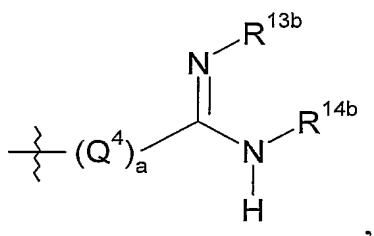
$R^{12e}$  and  $R^{12f}$  represent, independently at each occurrence, H or  $C_{1-4}$  alkyl optionally substituted by one or more halo atoms;

$R^a$  to  $R^d$  independently represent

5 (a)



(b)

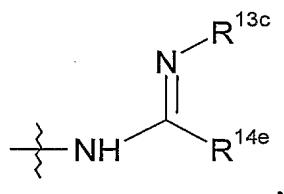


(c)

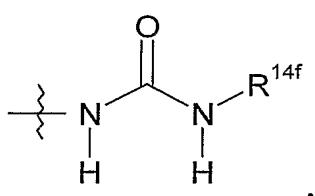
10



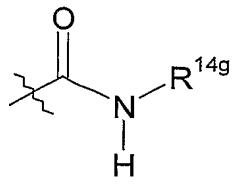
(d)



(e)



(f)

(g) Het<sup>x</sup>or R<sup>b</sup> to R<sup>d</sup> may also represent H;5 Q<sup>3</sup> represents O, N(R<sup>10c</sup>), S(O)<sub>2</sub>, S(O)<sub>2</sub>NH, C(O) or -CH=N-;Q<sup>4</sup> represents O, S or CH<sub>2</sub>;

a represents O or 1;

Het<sup>x</sup> represents a 5- or 6-membered heterocyclic group containing one to four heteroatoms selected from oxygen, nitrogen and/or sulfur, which10 heterocyclic group may be substituted by one or more substituents selected from halo, =O, C<sub>1-6</sub> alkyl and C<sub>1-6</sub> alkoxy (which latter two groups are optionally substituted by one or more halo atoms);R<sup>13a</sup> to R<sup>13c</sup> independently represent

15 (a) H,

(b) CN,

(c) NH<sub>2</sub>,(d) OR<sup>15</sup> or(e) C(O)OR<sup>16</sup>;20 R<sup>15</sup> represents

(a) H,

(b) C<sub>1-10</sub> alkyl, C<sub>3-10</sub> alkenyl, C<sub>3-10</sub> alkynyl,(c) C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl, which latter two groups are optionally substituted by one or more substituents selected from halo25 and C<sub>1-6</sub> alkyl, or(d) C<sub>1-3</sub> alkyl, which latter group is optionally interrupted by oxygen and is substituted by aryl or -O-aryl;

$R^{16}$  represents

- (a)  $C_{1-10}$  alkyl,  $C_{3-10}$  alkenyl,  $C_{3-10}$  alkynyl, which latter three groups are optionally interrupted by one or more oxygen atoms, or
- (b)  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl, which latter two groups are optionally substituted by one or more substituents selected from halo and  $C_{1-6}$  alkyl, or
- 5 (c)  $C_{1-3}$  alkyl, which latter group is optionally interrupted by oxygen and is substituted by aryl or  $-O$ -aryl;

10  $R^{8a}$  to  $R^{8c}$ ,  $R^{10a}$  to  $R^{10c}$  and  $R^{14a}$  to  $R^{14g}$  independently represent

- (a) H or
- (b)  $C_{1-4}$  alkyl (which latter group is optionally substituted by one or more substituents selected from halo and OH),

15 or  $R^{14a}$  and  $R^{14b}$  independently represent  $C(O)O-C_{1-6}$  alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms),

or  $R^{14c}$  represents

- (a)  $C_{1-4}$  alkyl substituted by  $C_{3-7}$  cycloalkyl or aryl,
- (b)  $C_{3-7}$  cycloalkyl,
- 20 (c)  $C(O)O-C_{1-6}$  alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms),

(d)  $C(O)C_{1-6}$  alkyl,

(e)  $C(O)N(H)-C_{1-6}$  alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms) or

25 (f)  $S(O)_2-C_{1-6}$  alkyl (the alkyl part of which latter group is optionally substituted by aryl and/or one or more halo atoms),

or  $R^{14c}$  and  $R^{14d}$  together represent  $C_{3-6}$  *n*-alkylene optionally interrupted by O, S, N(H) or  $N(C_{1-4}$  alkyl) and/or substituted by one or more  $C_{1-4}$  alkyl groups;

each aryl independently represents a C<sub>6-10</sub> carbocyclic aromatic group, which group may comprise either one or two rings and may be substituted by one or more substituents selected from

- (a) halo,
- 5 (b) CN,
- (c) C<sub>1-10</sub> alkyl, C<sub>2-10</sub> alkenyl, C<sub>2-10</sub> alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C<sub>1-6</sub> alkoxy, C(O)OH, C(O)O-C<sub>1-6</sub> alkyl, phenyl (which latter group is optionally substituted by halo) and Het<sup>7</sup>),
- 10 (d) C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy, phenyl (which latter group is optionally substituted by halo) and Het<sup>8</sup>),
- (e) OR<sup>17a</sup>,
- 15 (f) S(O)<sub>p</sub>R<sup>17b</sup>,
- (g) S(O)<sub>2</sub>N(R<sup>17c</sup>)(R<sup>17d</sup>),
- (h) N(R<sup>17e</sup>)S(O)<sub>2</sub>R<sup>17f</sup>,
- (i) N(R<sup>17g</sup>)(R<sup>17h</sup>),
- (j) B<sup>5</sup>-C(O)-B<sup>6</sup>-R<sup>17i</sup>,
- 20 (k) phenyl (which latter group is optionally substituted by halo),
- (l) Het<sup>9</sup> and
- (m) Si(R<sup>18a</sup>)(R<sup>18b</sup>)(R<sup>18c</sup>);

R<sup>17a</sup> to R<sup>17i</sup> independently represent, at each occurrence,

- 25 (a) H,
- (b) C<sub>1-10</sub> alkyl, C<sub>2-10</sub> alkenyl, C<sub>2-10</sub> alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C<sub>1-6</sub> alkoxy, phenyl (which latter group is optionally substituted by halo) and Het<sup>10</sup>),

(c)  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O,  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy, phenyl (which latter group is optionally substituted by halo) and Het<sup>11</sup>),

5 (d) phenyl (which latter group is optionally substituted by halo) or  
(e) Het<sup>12</sup>,

provided that  $R^{17b}$  does not represent H when p is 1 or 2;

Het<sup>1</sup> to Het<sup>12</sup> independently represent 4- to 14-membered heterocyclic

10 groups containing one or more heteroatoms selected from oxygen, nitrogen and/or sulfur, which heterocyclic groups may comprise one, two or three rings and may be substituted by one or more substituents selected from

(a) halo,

(b) CN,

15 (c)  $C_{1-10}$  alkyl,  $C_{2-10}$  alkenyl,  $C_{2-10}$  alkynyl (which latter four groups are optionally substituted by one or more substituents selected from halo, OH,  $C_{1-6}$  alkoxy,  $C(O)OH$ ,  $C(O)O-C_{1-6}$  alkyl, phenyl (which latter group is optionally substituted by halo) and Het<sup>a</sup>),

(d)  $C_{3-10}$  cycloalkyl,  $C_{4-10}$  cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O,  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy, phenyl (which latter group is optionally substituted by halo) and Het<sup>b</sup>),

(e) =O,

(f)  $OR^{19a}$ ,

25 (g)  $S(O)_qR^{19b}$ ,

(h)  $S(O)_2N(R^{19c})(R^{19d})$ ,

(i)  $N(R^{19e})S(O)_2R^{19f}$ ,

(j)  $N(R^{19g})(R^{19h})$ ,

(k)  $B^7-C(O)-B^8-R^{19i}$ ,

30 (l) phenyl (which latter group is optionally substituted by halo),

- (m) Het<sup>c</sup> and
- (n) Si(R<sup>20a</sup>)(R<sup>20b</sup>)(R<sup>20c</sup>);

R<sup>19a</sup> to R<sup>19i</sup> independently represent, at each occurrence,

- 5 (a) H,
- (b) C<sub>1-10</sub> alkyl, C<sub>2-10</sub> alkenyl, C<sub>2-10</sub> alkynyl (which latter three groups are optionally substituted by one or more substituents selected from halo, OH, C<sub>1-6</sub> alkoxy, phenyl (which latter group is optionally substituted by halo) and Het<sup>d</sup>),
- 10 (c) C<sub>3-10</sub> cycloalkyl, C<sub>4-10</sub> cycloalkenyl (which latter two groups are optionally substituted by one or more substituents selected from halo, OH, =O, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy, phenyl (which latter group is optionally substituted by halo) and Het<sup>e</sup>),
- (d) phenyl (which latter group is optionally substituted by halo) or
- 15 (e) Het<sup>f</sup>,

provided that R<sup>19b</sup> does not represent H when q is 1 or 2;

Het<sup>a</sup> to Het<sup>f</sup> independently represent 5- or 6-membered heterocyclic groups containing one to four heteroatoms selected from oxygen, nitrogen and/or 20 sulfur, which heterocyclic groups may be substituted by one or more substituents selected from halo, =O and C<sub>1-6</sub> alkyl;

B<sup>1</sup> to B<sup>8</sup> independently represent a direct bond, O, S or NH;  
n, p and q independently represent 0, 1 or 2;

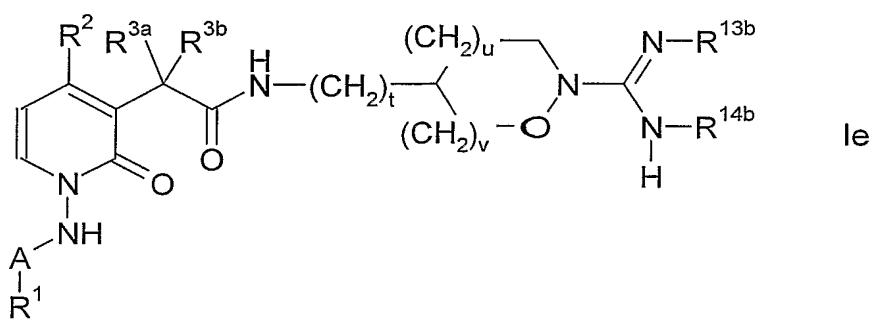
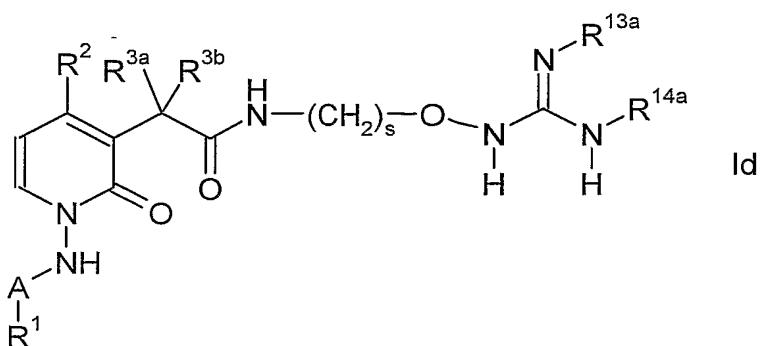
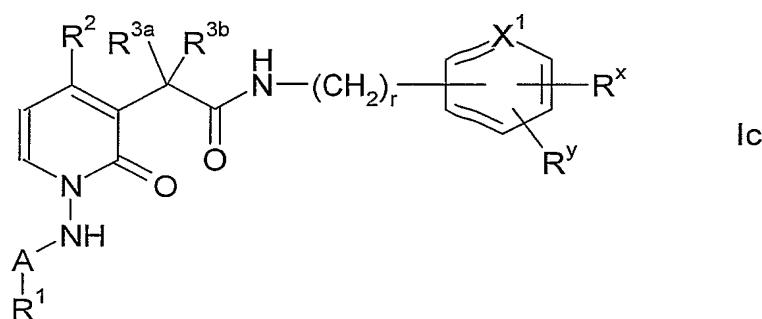
25 R<sup>18a</sup>, R<sup>18b</sup>, R<sup>18c</sup>, R<sup>20a</sup>, R<sup>20b</sup> and R<sup>20c</sup> independently represent C<sub>1-6</sub> alkyl or phenyl (which latter group is optionally substituted by halo or C<sub>1-4</sub> alkyl);

unless otherwise specified

- (i) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, alkylene and alkenylene groups, as well as the alkyl part of alkoxy groups, may be substituted by one or more halo atoms, and
- 5 (ii) cycloalkyl and cycloalkenyl groups may comprise one or two rings and may additionally be ring-fused to one or two phenyl groups;

or a pharmaceutically-acceptable derivative thereof.

10 2. A compound as claimed in Claim 1, which is a compound of formula Ic, Id or Ie,



wherein  $X^1$  represents CH or N;

when  $X^1$  represents CH

- (a)  $R^x$  represents  $R^b$  as defined in Claim 1, and
- (b)  $R^y$  represents  $R^{11a}$  as defined in Claim 1;

5 when  $X^1$  represents N

- (a)  $R^x$  represents  $R^d$  as defined in Claim 1, and
- (b)  $R^y$  represents  $R^{11c}$  as defined in Claim 1;

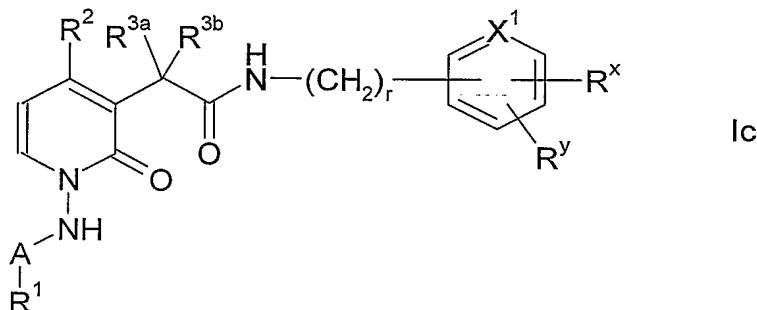
r represents 1 to 3;

s represents 2 to 4;

10 t represents 1 to 3;

u and v independently represent 0 to 2, the sum of u and v being 1 or 2; and  $R^1$ ,  $R^2$ ,  $R^{3a}$ ,  $R^{3b}$ ,  $R^{11a}$ ,  $R^{11c}$ ,  $R^{13a}$ ,  $R^{13b}$ ,  $R^{14a}$ ,  $R^{14b}$ ,  $R^b$ ,  $R^d$  and A are as defined in Claim 1.

15 3. A compound as claimed in Claim 2 which is a compound of formula Ic,



wherein

A represents  $CH(CH_3)CH_2$  (in which latter group the  $CH(CH_3)$  unit is

20 attached to  $R^1$ ) or  $CH_2$ ,  $(CH_2)_2$  or  $CF_2CH_2$  (in which latter group the  $CF_2$  unit is attached to  $R^1$ );

$R^1$  represents

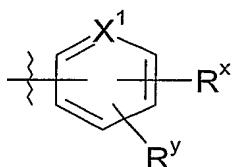
- (a) isopropyl or *tert*-butyl,
- (b) cyclopentyl, cyclohexyl or bicyclo[2.2.1]hept-5-ene,

- (c) phenyl optionally substituted by one or two substituents selected from halo, CN, methyl,  $CF_3$ , methoxy,  $OCF_3$ , phenoxy, morpholin-4-yl or O- $CH_2$ -(2-chlorothiazol-5-yl),
- 5 (d) imidazolyl optionally substituted by one to three substituents selected from Cl, methyl and phenyl,
- (e) isoxazolyl optionally substituted by one or two substituents selected from methyl, phenyl and 2-thienyl,
- (f) thiazolyl optionally substituted by one or two methyl groups,
- 10 (g) thienyl optionally substituted by Cl or pyridinyl,
- (h) pyrazolyl optionally substituted by one to three substituents selected from Cl, methyl, ethyl, phenyl and morpholin-4-yl,
- (i) pyrrolyl optionally substituted by one to three substituents selected from methyl,  $S(O)_2$ -phenyl,  $C(O)$ -phenyl and 1,3,4-triazol-1-yl,
- 15 (j) pyridinyl optionally substituted by OH, methoxy or morpholin-4-yl, and optionally in the form of an *N*-oxide,
- (k) pyridonyl,
- (l) pyrazinyl,
- (m) benzodioxolyl optionally substituted by halo,
- 20 (n) benzomorpholinyl optionally substituted by methyl;
- (o) 2,1,3-benzoxadiazolyl,
- (p) 2,3-dihydrobenzofuranyl or
- (q) quinolinyl;

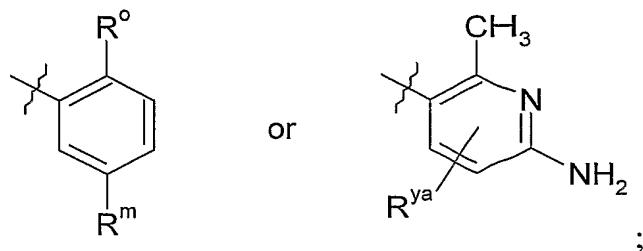
$R^5$  and  $R^6$  both represent H;

25 r represents 1;

the group



represents



$R^o$  represents H, F, Cl, OH, methyl, tetrazol-1-yl,  $OCH_2C(O)N(H)R^{12b}$  or  $CH_2N(H)R^{14c}$ ;

5  $R^{12b}$  represents H or  $C_{1-3}$  alkyl optionally substituted by  $N(CH_3)_2$ ;

$R^{14c}$  represents  $C(O)O$ -*tert*-butyl, H, ethyl,  $CH_2CF_3$  or cyclopentyl;

$R^m$  represents H, methyl,  $CF_3$ , methoxy, F or Cl; and

$R^{ya}$  represents H or methyl.

10 4. A pharmaceutical formulation including a compound as defined in any one of Claims 1 to 3, or a pharmaceutically acceptable derivative thereof, in admixture with a pharmaceutically acceptable adjuvant, diluent or carrier.

15 5. A compound as defined in any one of Claims 1 to 3, or a pharmaceutically acceptable derivative thereof, for use as a pharmaceutical.

20 6. The use of a compound as defined in any one of Claims 1 to 3, or a pharmaceutically acceptable derivative thereof, as an active ingredient for the manufacture of a medicament for the treatment of a condition where inhibition of thrombin is beneficial.

25 7. A method of treatment of a condition where inhibition of thrombin is beneficial, which method comprises administration of a therapeutically effective amount of a compound as defined in any one of Claims 1 to 3, or a

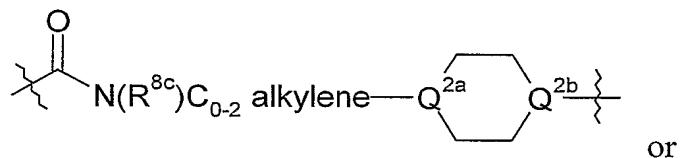
pharmaceutically acceptable derivative thereof, to a person suffering from, or susceptible to, such a condition.

8. A process for the preparation of a compound of formula I as defined in Claim 1, which comprises:

(a) for compounds of formula I in which the group G represents

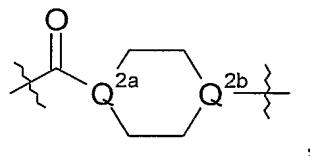
- (i)  $\text{C}(\text{O})\text{N}(\text{R}^{8a})-\text{[CH}(\text{C}(\text{O})\text{R}^9)]_{0-1}\text{-C}_{0-3}$  alkylene- $(\text{Q}^1)_a-$ ,
- (ii)  $\text{C}(\text{O})\text{N}(\text{R}^{8b})-\text{C}_{2-3}$  alkenylene- $(\text{Q}^1)_a-$ ,
- (iii)  $\text{C}(\text{O})\text{N}(\text{R}^{8b})-\text{C}_{2-3}$  alkynylene- $(\text{Q}^1)_a-$ ,
- (iv)

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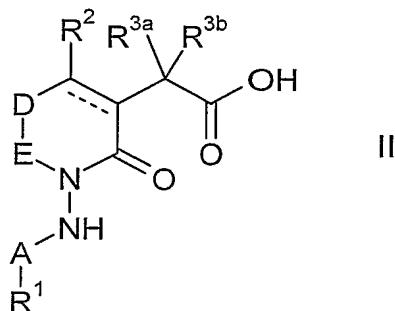
or

(v)

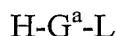


wherein  $\text{Q}^{2a}$  represents N or  $\text{NHCH}_2$ ,

15 coupling of a compound of formula II,



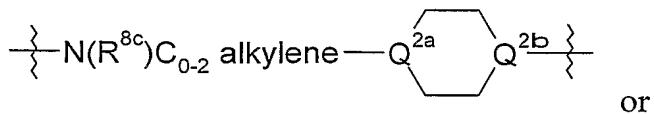
wherein the dashed line,  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^{3a}$ ,  $\text{R}^{3b}$ , A, D and E are as defined in Claim 1, with a compound of formula III,



III

20 wherein L is as defined in Claim 1 and  $\text{G}^a$  represents

- (i)  $-\text{N}(\text{R}^{8a})-\text{[CH}(\text{C}(\text{O})\text{R}^9)]_{0-1}\text{-C}_{0-3}$  alkylene- $(\text{Q}^1)_a-$ ,
- (ii)  $-\text{N}(\text{R}^{8b})-\text{C}_{2-3}$  alkenylene- $(\text{Q}^1)_a-$ ,
- (iii)  $-\text{N}(\text{R}^{8b})-\text{C}_{2-3}$  alkynylene- $(\text{Q}^1)_a-$ ,
- (iv)

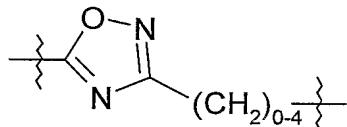


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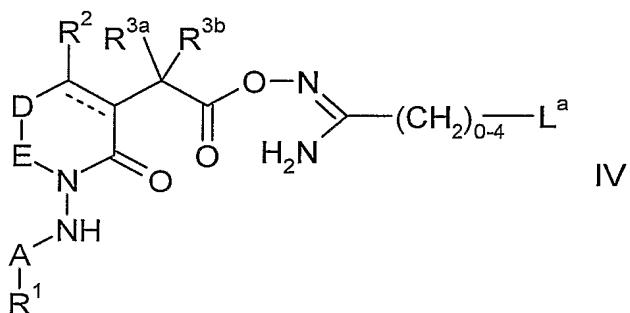
(v)

wherein  $Q^{2a}$  represents N or NHCH and  $R^{8a}$ ,  $R^{8b}$ ,  $R^{8c}$ ,  $R^9$ ,  $Q^1$ ,  $Q^{2b}$  and a are as defined in Claim 1;

10 (b) for compounds of formula I in which G represents



and L represents L<sup>a</sup>, which latter group represents L as defined in Claim 1, except that it does not represent C<sub>0</sub> alkylene-R<sup>a</sup>, cyclisation of a compound of formula IV,

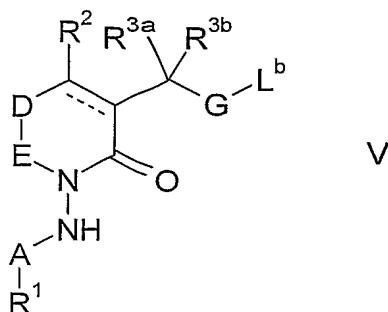


15

wherein  $L^a$  is as defined above and the dashed line,  $R^1$ ,  $R^2$ ,  $R^{3a}$ ,  $R^{3b}$ , A, D and E are as defined in Claim 1;

(c) for compounds of formula I in which  $R^a$ ,  $R^b$ ,  $R^c$  or  $R^d$  represents  $-C(=NH)NH_2$ ,  $-C(=NNH_2)NH_2$  or  $-C(=NOH)NH_2$ , reaction of a compound 20 of formula V,

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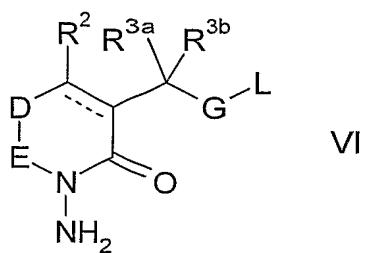


wherein  $L^b$  represents  $L$  as defined in Claim 1, except that  $R^a$ ,  $R^b$ ,  $R^c$  or  $R^d$  (as appropriate) is replaced by a cyano or  $-C(=NH)O-C_{1-4}$  alkyl group, and the dashed line,  $R^1$ ,  $R^2$ ,  $R^{3a}$ ,  $R^{3b}$ ,  $A$ ,  $D$ ,  $E$  and  $G$  are as defined in Claim 1, with a suitable source of ammonia, hydrazine or hydroxylamine;

5 (d) for compounds of formula I in which  $R^{13a}$ ,  $R^{13b}$  or  $R^{13c}$  represents H, deprotection of a corresponding compound of formula I in which  $R^{13a}$ ,  $R^{13b}$  or  $R^{13c}$  (as appropriate) represents  $C(O)O-CH_2$ aryl;

(e) for compounds of formula I in which  $R^{14c}$  represents H, deprotection of a 10 corresponding compound of formula I in which  $R^{14c}$  represents  $C(O)O-C_{1-6}$  alkyl;

(f) reaction of a compound of formula VI,



15 wherein the dashed line,  $R^2$ ,  $R^{3a}$ ,  $R^{3b}$ ,  $A$ ,  $D$ ,  $E$ ,  $G$  and  $L$  are as defined in Claim 1, with a compound of formula VII,



wherein  $Lg^1$  represents a leaving group and  $R^1$  and  $A$  are as defined in Claim 1;

20 (g) for compounds of formula I in which  $A$  represents  $C(O)NH$ , reaction of a compound of formula VI, as defined above, with a compound of formula VIII,



VIII

wherein  $R^1$  is as defined in Claim 1;

(h) for compounds of formula I in which A represents  $C_{1-6}$  alkylene, reaction of a compound of formula VI, as defined above, with a compound

5 of formula IX,



IX

wherein  $R^1$  is as defined in Claim 1, followed by reduction in the presence of a reducing agent; or

(i) for compounds of formula I in which  $R^a$ ,  $R^b$ ,  $R^c$  or  $R^d$  represents

10  $-C(=NCN)NH_2$ , reaction of a corresponding compound of formula I in which  $R^a$ ,  $R^b$ ,  $R^c$  or  $R^d$ , respectively, represents  $-C(=NH)NH_2$  with cyanogen bromide.

9. A compound of formula II, as defined in Claim 8, or a protected

15 derivative thereof.

10. A compound of formula IV, as defined in Claim 8, or a protected

derivative thereof.

20 11. A compound of formula VI, as defined in Claim 8, or a protected

derivative thereof.